UNIC

RX-2A

RC-500/RCW-500
RADIO/CABLE REMOTE CONTROL
TESTER USER'S MANUAL

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FURUKAWA UNIC
FURUKAWA UNIC CORPORATION

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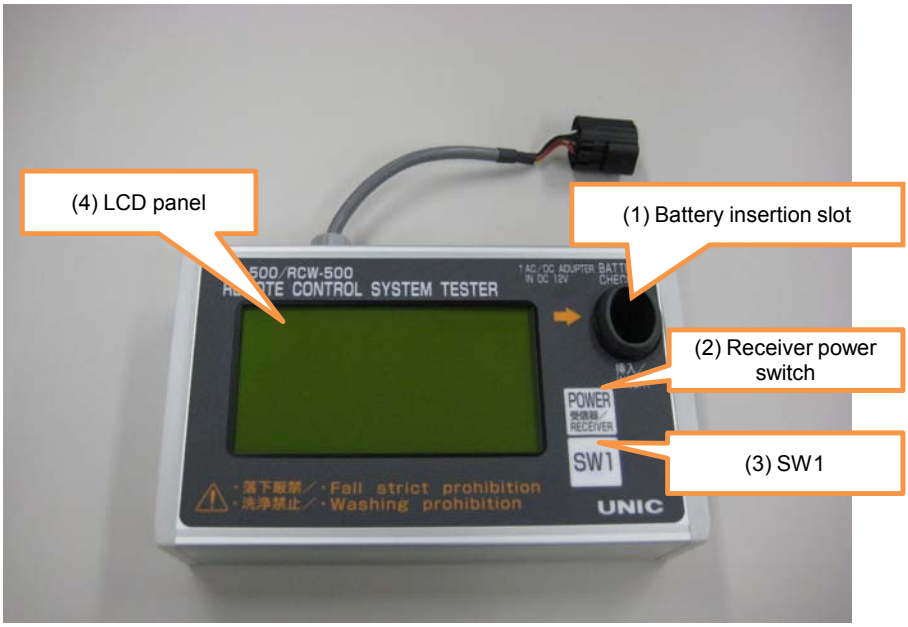
1. EXPLANATION OF MAIN UNIT

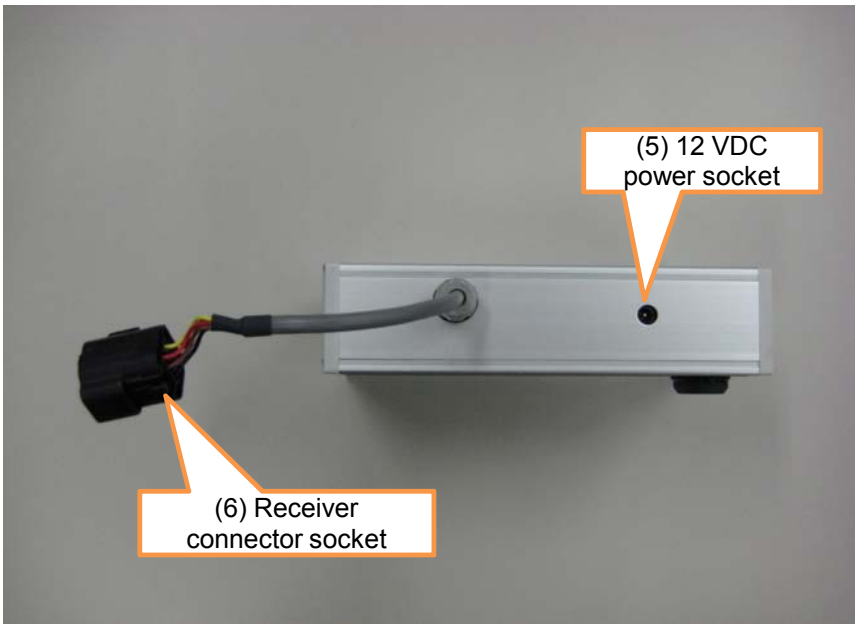
1) Explanation of panel



The panel surface is made up of the battery insertion slot, receiver power switch, LCD panel, and SW1.

(1) Battery insertion slot	.... Insert the battery holder
(2) Receiver power switch	.... Put the power switch when testing
(3) SW1	.... Not used
(4) LCD panel	.... Displays the remaining amount of battery power and operation when the radio control operates.

2) Explanation of top side



The top side is made up of the 12 VDC power socket and receiver connector socket.

(5) 12 VDC power socket	.... Plug in the AC-DC power adapter or cigar lighter socket adapter (for both 12 and 24 VDC).
(6) Receiver connector socket	.... Plug in the receiver connector. (Be sure to plug in the converter connector.)

2. PREPARATIONS BEFORE INSPECTION AND PRECAUTIONS

1) Before using, connect the power supply to the power connector on the side.

The power supply comes from the cigar lighter socket (12/24 VDC) of the car or truck.

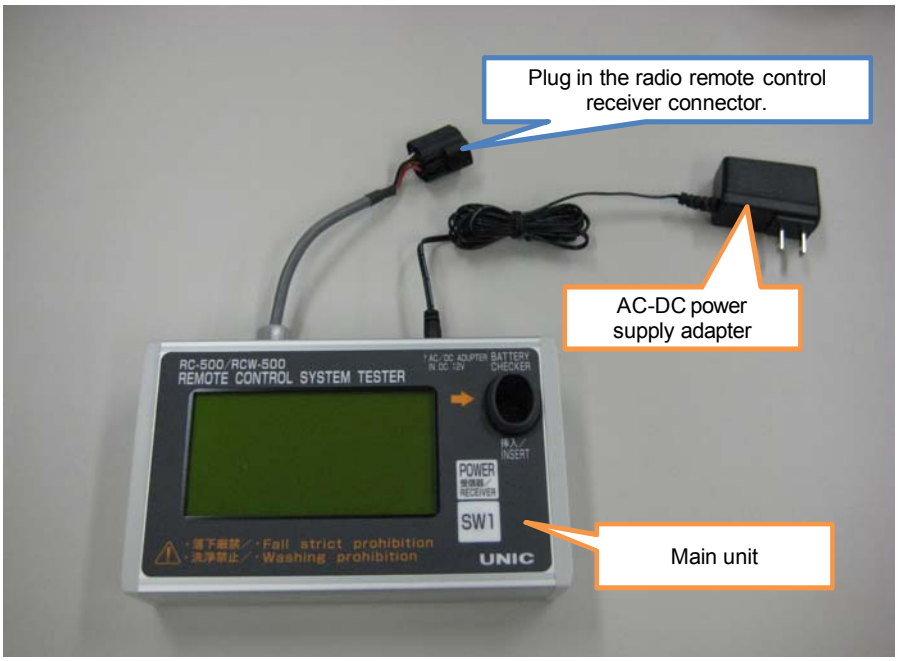
Or the power from household electrical outlets (100 to 240 VAC, 50/60 Hz).

2) Always unplug the power supply after use.

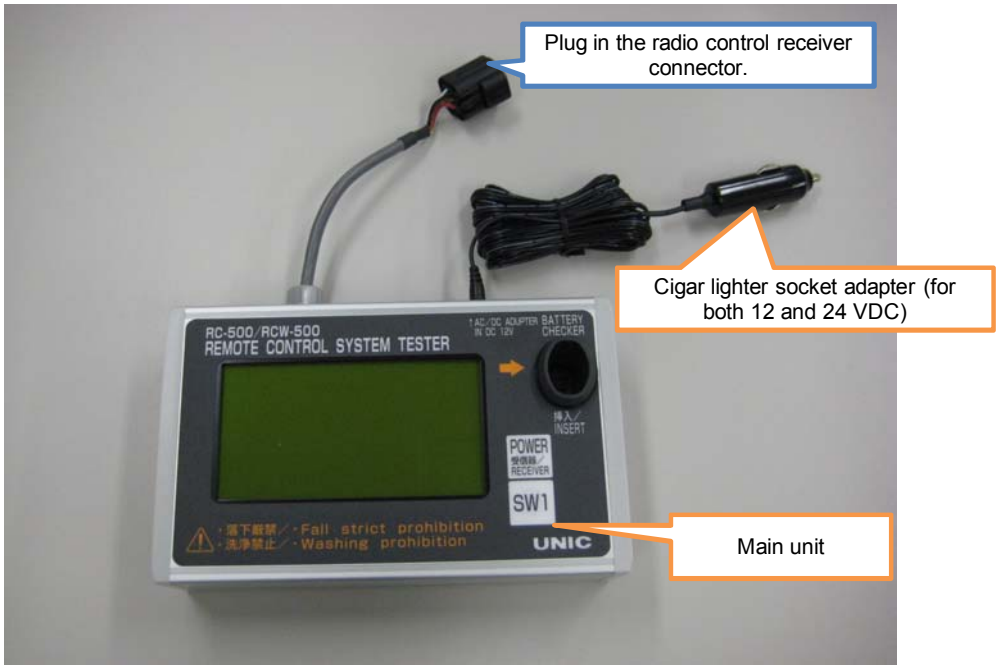
3. CONNECTION DIAGRAMS FOR PARTS DURING INSPECTION

3.1 Connection diagram for parts during inspection (radio remote control)

1) Connection diagram for using AC-DC power adapter

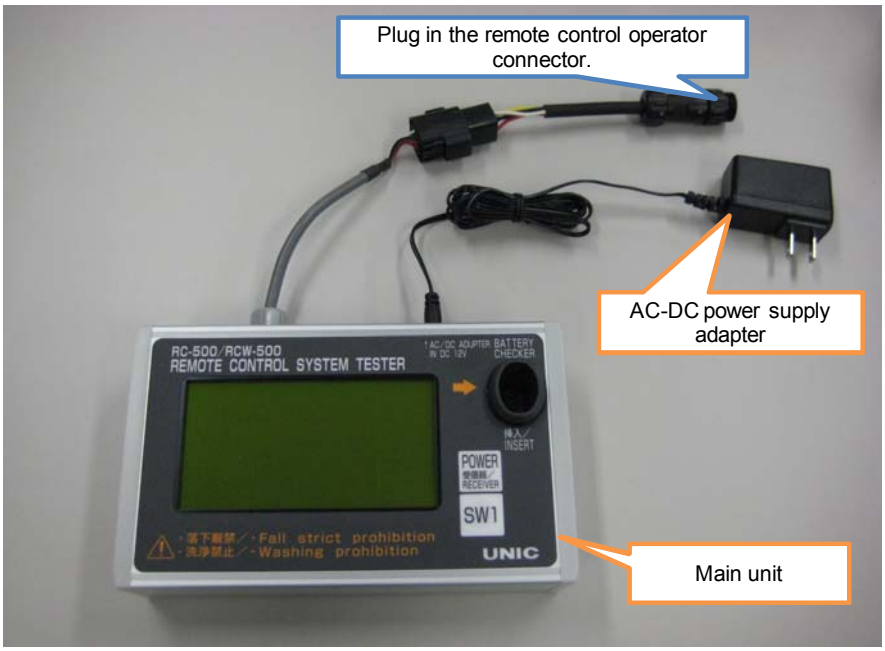


2) Connection diagram for using cigar lighter socket adapter (for both 12 and 24 VDC)

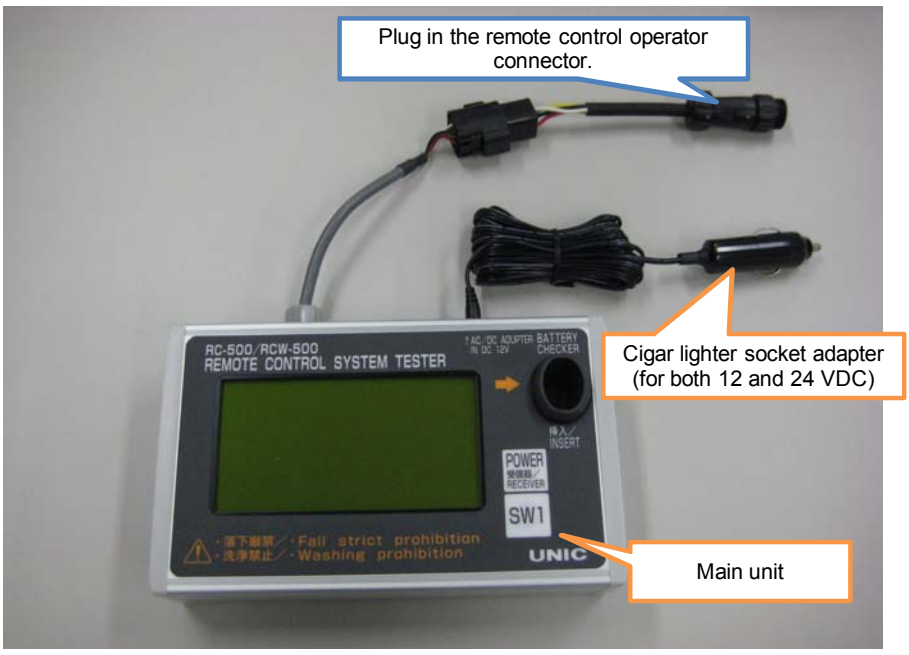


3.2 Connection diagram for parts during inspection (Cable remote control)

1) Connection diagram for using AC-DC power adapter



2) Connection diagram for using cigar lighter socket adapter (for both 12 and 24 VDC)



4. INSPECTION METHOD

1) Remaining battery power inspection method

Radio control tester start-up screen

RC-500/RCW-500

Remote Control System Tester

Ver. 1.00

FURUKAWA UNIC CORPORATION

3 seconds after the start-up screen starts, the screen is switched.

Remaining battery power measurement screen

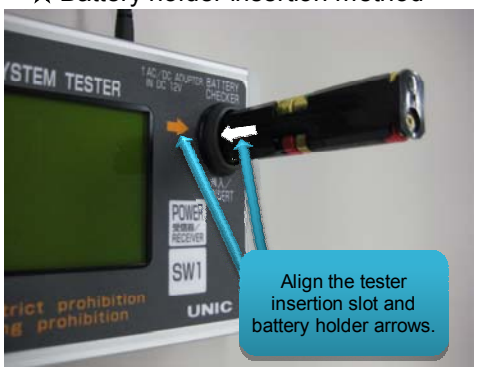
「When you check the remote-control system」
Please connect the remote-control system,
and push the "power" switch.
「When you check the battery power」
Please insert the battery holder in the loading slot
of "BATTERY CHECKER".

BATTERY POWER 0.00 V

Remaining battery power result value

		Use
Normal voltage	4.8 V min.	OK
Converted voltage	4.8 - 4.5 V	OK
Stop voltage	4.5 V max.	NG

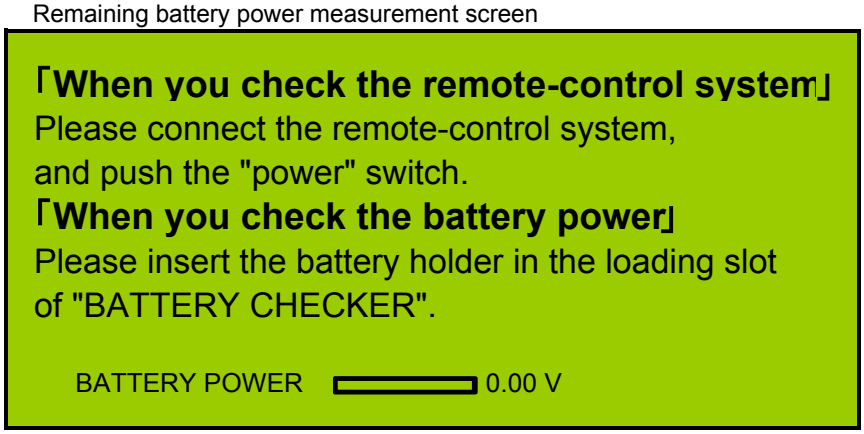
★ Battery holder insertion method



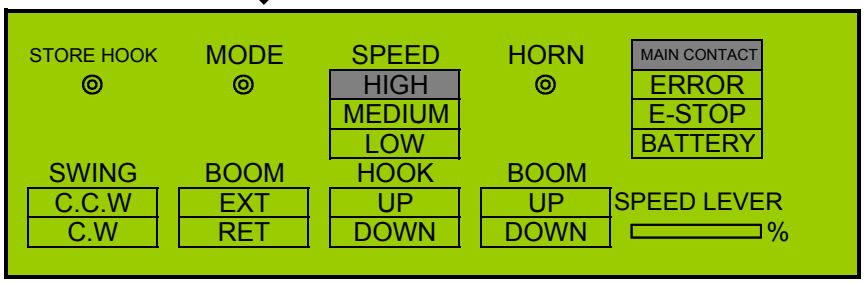
Be sure to insert the battery holder facing in the correct direction as shown in the figure in the left.
The amount of remaining battery power can only be measured if the battery holder is inserted in the correct direction.

2) Radio control tester measurement start method
(radio control with selector switches)

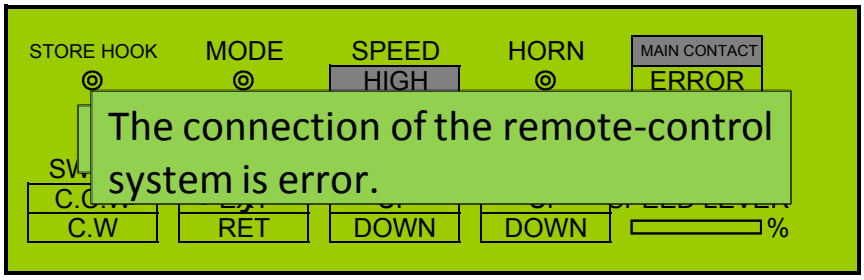
Remaining battery power measurement screen


「When you check the remote-control system」
Please connect the remote-control system,
and push the "power" switch.
「When you check the battery power」
Please insert the battery holder in the loading slot
of "BATTERY CHECKER".
BATTERY POWER
0.00 V

When the receiver of the radio control with selector switches is connected with the connector and the tester [POWER (RECEIVER)] switch is pressed, the screen changes as follows.



* If the tester [POWER (RECEIVER)] switch is pressed with the receiver connector not connected, the screen changes as follows.
If this screen appears, it means that the receiver connector is not connected normally.
Check the connection status.



3) Tester operation state check contents (remote control with selector switches)

STORE HOOK ◎	◉ : Lit when the switch is ON. ◎ : Off when the switch is OFF.
MODE ◎	◉ : Lit when the switch is ON. ◎ : Off when the switch is OFF.
HORN ◎	◉ : Lit when the switch is ON. ◎ : Off when the switch is OFF.
SPEED HIGH MEDIUM LOW	: Each time the speed switch is pressed, the speed moves to the next step in the sequence --> HIGH --> MEDIUM --> LOW --> HIGH --> MEDIUM --> LOW -->
MAIN CONTACT ERROR E-STOP BATTERY	Switch ON the key switch and the power switch. ⇒ Lit = Normal ⇒ Off = Fault * emergency stop buttun stays power off.
MAIN CONTACT ERROR E-STOP BATTERY	Radio control with selector switches ◆ Transmitter (1) Switch fault: Some switch operation or other stayed ON for longer than 5 minutes. (2) Switch fault: The opposing switch operation stayed ON for longer than1 second. (3) Volume fault/disconnection: The voltage for the speed control volume is abnormal. ◆ Receiver (1) Receiver CPU error: Error of RAM check or watchdog timer (2) Setting switch setting error: Setting error of low speed mode, frequency group or frequency selection mode
MAIN CONTACT ERROR E-STOP BATTERY	Switch OFF the key switch or switch ON the emergency stop switch. OFF ⇒ Normal Lit ⇒ Fault

MAIN CONTACT ERROR E-STOP BATTERY	Lights up when preparing to replace the battery (when the battery voltage is 4.5 to 4.8 V). OFF for any other voltage.
SWING C.C.W C.W	Lights up when the selector switch is set to swing counter-clockwise ( ).
SWING C.C.W C.W	Lights up when the selector switch is set to swing clockwise ( ).
BOOM EXT RET	Lights up when the selector switch is set to telescopic extend.
BOOM EXT RET	Lights up when the selector switch is set to telescopic retract.
HOOK UP DOWN	Lights up when the selector switch is set to hook up.
HOOK UP DOWN	Lights up when the selector switch is set to hook down.
BOOM UP DOWN	Lights up when the selector switch is set to derrick up.
BOOM UP DOWN	Lights up when the selector switch is set to derrick down.
SPEED LEVER 0% SPEED LEVER 50% SPEED LEVER 100%	0% is normal when the transmitter lever is not operated. 100% is normal when the transmitter lever is pulled all the way. If the transmitter lever is slowly pulled and the degree of opening of the lever increases without any sudden leaps, this is normal.

5. CHECK SHEET

1) RC-500/RCW-500 series check sheet

Company name	Signature

Date

Model		Machine No.	
Delivery date		Radio control manufacture No.	

Check item	Measurement voltage	Inspection results (Check one.)					
Radio control transmitter remaining battery power test	V	Good		Replace		Bad	

		Inspection results (Check one.)	
Inspection locations	Check item	Good	Bad
Main contact	Does it light up?		
Hook retraction	Does it light up and go out when the button is pressed?		
Mode change	Does it light up and go out when the button is pressed?		
Horn	Does it light up and go out when the button is pressed?		
Speed mode display	Does the light-up speed change each time the button is pressed?		
Error warning	Lit?		
Emergency stop	Lit?		
Selector switch (derrick boom)	Does it light up and go out when the button is pressed?		
Selector switch (winch)	Does it light up and go out when the button is pressed?		
Selector switch (telescopic boom)	Does it light up and go out when the button is pressed?		
Selector switch (swing)	Does it light up and go out when the button is pressed?		
Speed lever	Does the speed change from 0% to 100%?		
	0% when switch not operated?		
	Is the speed value free of sudden jumps?		

Specifications

- Applicable radio controls/remote controls
  RC-500H, RC-500HA series (made by Hetronic)
  RCW-500 series (remote control specifications)

- Power voltage: 100 - 240 VAC, 50/60 Hz, 0.3 A output + 12 V = 1 A (using power adapter)
  A vehicle cigar lighter socket can be used (12 V or 24 V).
  Battery checker built-in
  LCD panel display contents
  - Battery voltage
  - Speed lever signal
  - Error signal
  - Battery warning
  - Other ON - OFF signals

- Dimensions
  125 mm H × 200 mm W × 50 mm T

- Main unit weight
  600 g

- Accessories
  AC-DC power supply adapter
  Cigar lighter socket adapter (for both 12 and 24 VDC)
  Receiver connection converter adapter
  Bag
  User's manual
  Protection decal

- Warranty period
  One year from purchase